



MAJOR SOURCE OPERATING PERMIT

Permittee: **Unimin Lime Corporation**

Facility Name: **Calera Plant**

Facility No.: 411-0054

Location: Calera, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23 (2006 Rplc. Vol. and 2007 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code §§22-22A-1 to 22-22A-15 (2006 Rplc. Vol. and 2007 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *Draft*

Expiration Date: *Draft*

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>ADEM Admin Code r. 335-3-16-.02(6)</p> <p>ADEM Admin Code r. 335-3-16-.12(2)</p> <p>ADEM Admin Code r. 335-3-16-.05(e)</p> <p>ADEM Admin Code r. 335-3-16-.05(f)</p> <p>ADEM Admin Code r. 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p> <p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p> <p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p> <p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p> <p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p> <p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p>	<p>ADEM Admin Code r. 335-3-16-.05(h)</p> <p>ADEM Admin Code r. 335-3-16-.05(i)</p> <p>ADEM Admin Code r. 335-3-16-.05(j)</p> <p>ADEM Admin Code r. 335-3-16-.05(k)</p> <p>ADEM Admin Code r. 335-3-16-.07(a)</p> <p>ADEM Admin Code r. 335-3-16-.07(b)</p>

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<ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>ADEM Admin Code r. 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted no later than December 24th of each year.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements); (4) Whether compliance has been continuous or intermittent; 	<p>ADEM Admin Code r. 335-3-16-.07(e)</p>

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<p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="text-align: center;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="text-align: center;">and to:</p> <p style="text-align: center;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p> <p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	<p>ADEM Admin Code r. 335-3-16-.13(5)</p>

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<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p> <p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <ol style="list-style-type: none"> (1) Identification of the specific facility to be taken out of service as well as its location and permit number; (2) The expected length of time that the air pollution control equipment will be out of service; (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>ADEM Admin Code r. 335-3-1-.07(1), (2)</p>

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<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p> <p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p> <p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p> <p>ADEM Admin Code r. 335-3-1-.08</p> <p>ADEM Admin Code r. 335-3-4-.02</p>

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<p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>ADEM Admin Code r. 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)2.</p>
<p>21. <u>Reporting Requirements</u></p> <p>(a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9).</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)3.</p>

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(b) Deviations from permit requirements shall be reported within 48 hours or 2 working days of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken.	
<p>22. Emission Testing Requirements</p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p>	<p>ADEM Admin Code r. 335-3-1-.05(3) and ADEM Admin Code r. 335-3-1-.04(1)</p> <p>ADEM Admin Code r. 335-3-1-.04</p> <p>ADEM Admin Code r. 335-3-1-.04</p>

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<p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	
<p>23. <u>Payment of Emission Fees</u></p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>ADEM Admin Code r. 335-1-7-.04</p>
<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>ADEM Admin Code r. 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>40 CFR Part 82</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68</p> <p>(b) The owner or operator shall submit one of the following:</p>	<p>40 CFR Part 68</p>

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<p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan</p>	
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>ADEM Admin Code r. 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>ADEM Admin Code r. 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>ADEM Admin Code r. 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>ADEM Admin Code r. 335-3-4-.03</p> <p>ADEM Admin Code r. 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>ADEM Admin Code r. 335-3-4-.04</p>

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<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p> <p>33. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the unit specific provisos and the attached CAM appendices.</p> <p>(a) Operation of Approved Monitoring</p> <p>(1) Commencement of operation. The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).</p> <p>(2) Proper maintenance. At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.</p> <p>(3) Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.</p>	<p>ADEM Admin Code r. 335-3-1-.05</p> <p>40 CFR 64.7</p>

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<p>(4) Response to excursions or exceedances. (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable. (b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.</p> <p>(5) Documentation of need for improved monitoring. After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.</p>	

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<p>(b) Quality Improvement Plan (QIP) Requirements</p> <p>(1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.</p> <p>(2) Elements of a QIP:</p> <p>A. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.</p> <p>B. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:</p> <ul style="list-style-type: none"> i. Improved preventive maintenance practices. ii. Process operation changes. iii. Appropriate improvements to control methods. iv. Other steps appropriate to correct control performance. v. More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above). 	<p>40 CFR 64.8</p>

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<p>(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.</p> <p>(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:</p> <p style="padding-left: 40px;">A. Failed to address the cause of the control device performance problems; or</p> <p style="padding-left: 40px;">B. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.</p> <p>(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.</p> <p>(c) Reporting and Recordkeeping Requirements</p> <p>(1) General reporting requirements</p> <p style="padding-left: 40px;">A. On and after the date specified in Section 33(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.</p> <p style="padding-left: 40px;">B. A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:</p>	<p>40 CFR 64.9</p>

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<p>(i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;</p> <p>(ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and</p> <p>(iii) A description of the actions taken to implement a QIP during the reporting period as specified in Section 33(b) above. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.</p> <p>(2) General recordkeeping requirements.</p> <p>A. The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).</p> <p>B. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.</p>	

General Permit Provisos

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<p>(d) Savings Provisions</p> <p>(1) Nothing in this part shall:</p> <p>A. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>B. Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>C. Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	<p>40 CFR 64.10</p>

Summary Page for Stone Processing Plant

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
SI100-Fug SI101-Fug	Limestone Stockpiles	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
FE102-Fug FE103-Fug FE104-Fug FE105-Fug FE106-Fug FE107-Fug	Tunnel No. 109 Limestone Hoppers	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC108-Fug	Tunnel No. 109 Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC110-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
VS112-Fug	Primary Scalping Screen	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC132-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BN114-Fug	Primary Crusher Stone Bin	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
FE116-Fug	54" Vibratory Feeder	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
CR118-Fug	84" Primary Cone Crusher	PM/Opacity	15%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC113-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)

Emission Point #	Description	Pollutant	Emission limit	Regulation
DV122-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
VS124-Fug VS125-Fug	Primary Screens	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC127-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC128-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV126-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC131-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV129-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV130-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
VS140-Fug VS142 -Fug VS144-Fug VS146-Fug	8 x 20 Secondary Screens	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC148-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC150-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC152-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC154-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)

Emission Point #	Description	Pollutant	Emission limit	Regulation
BC156-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV157-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC158-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
SI160-Fug SI164 -Fug SI168 -Fug SI172-Fug	Screens	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
FE161-Fug FE162-Fug FE163-Fug FE165-Fug FE166-Fug FE167-Fug FE169-Fug FE170-Fug FE171-Fug FE173-Fug FE174-Fug FE175-Fug	Tunnel No. 176 Stone Feeders	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC176-Fug	Tunnel No. 176 Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV177-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC178-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
DV179-Fug	Diverter Valve	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC180-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)

Emission Point #	Description	Pollutant	Emission limit	Regulation
VS182-Fug	Screen	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
SC184-Fug	Screen Reject Screw	PM/Opacity	10%	40 CFR Part 60 Subpart OOO [§ 60.672(b)
BC186-Fug	Belt Conveyor to 3/8" Stockpile	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC188-Fug	Belt Conveyor	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)
BC190-Fug	Belt Conveyor to Preheater Stone Bin (BN801)	PM/Opacity	10%	40 CFR Part 60 Subpart OOO § 60.672(b)

All sources within this system are fugitive emission sources.

Provisos for Stone Processing Plant

Federally Enforceable Provisos	Regulations
<p><u>Applicability</u></p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16.03, "<i>Major Source Operating Permits.</i>" 2. This source is subject to the applicable provisions of ADEM Admin. Code r. 335-3-4-.02, "<i>Control of Particulate Emissions: Fugitive Sources.</i>" 3. This source is subject to the applicable provisions of 40 CFR Subpart OOO, "Standards of Performance for Nonmetallic Mineral Processing Plants." 	<p>ADEM Admin Code r. 335-3-16-.03</p> <p>ADEM Admin. Code r. 335-3-4-.02(1) and (3)</p> <p>40 CFR Part 60 Subpart OOO §60.670</p>
<p><u>Emission Standards</u></p> <ol style="list-style-type: none"> 1. Precautions shall be taken to prevent fugitive dust from emanating from stockpiles, transfer points, conveyors, feeders, hoppers, and any other equipment within the Stone Processing Plant. 2. Fugitive PM emissions discharged to the atmosphere from the secondary crushers associated with this process shall not exceed greater than 15%. 3. Fugitive PM emissions discharged to the atmosphere from any transfer point within the Stone Processing Plant shall not exceed greater than 10% opacity. 	<p>ADEM Admin Code r. 335-3-4-.02</p> <p>40 CFR Part 60 Subpart OOO § 60.672(b)</p> <p>40 CFR Part 60 Subpart OOO § 60.672(b)</p>
<p><u>Compliance and Performance Test Methods and Procedures</u></p> <ol style="list-style-type: none"> 1. Instantaneous visible emissions observations (VEO) shall be conducted in accordance with Method 22 40 CFR 60, Appendix A. 2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A 	<p>ADEM Admin. Code r. 335-3-16-.05</p> <p>ADEM Admin. Code r. 335-3-16-.05</p>
<p><u>Emission Monitoring</u></p> <ol style="list-style-type: none"> 1. The opacity of emissions from these sources shall be monitored in accordance with the following: <ol style="list-style-type: none"> (a) An instantaneous visible emissions observation shall be conducted at least weekly during daylight hours while the affected source is in operation. (b) If any visible emissions are observed during the instantaneous visible emissions observation, a six (6) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, 	<p>ADEM Admin. Code r. 335-3-16-.05(c)(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(1)</p>

Federally Enforceable Provisos	Regulations
<p>Appendix A, within one (1) hour of the initial observation, unless the source is immediately shut down.</p> <p>(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.</p> <p>(d) After corrective action has been completed, a follow-up instantaneous visible emissions observation shall be conducted in order to ensure that no visible emissions are present.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)(1)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)(1)</p>
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. Records documenting the observation date, observation time, emission point designation, name of the observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)(2)</p>
<p>2. If a visible emissions observation utilizing Method 9 is required, the results shall be documented using the ADEM visible emissions observation report. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)(2)</p>

Summary Page for Lime Plant Area 600

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
600	Lime Kiln	PM	0.6 lb/ton of stone feed	40 CFR Part 60 Subpart HH §60.342(a)(1)
600	Lime Kiln	PM	0.02 gr/acf 34.5 lb/hr 151.1 TPY	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
600	Lime Kiln	CO	1.65 lb/tons lime produced 346 tons/rolling 12-months	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
600	Lime Kiln	NO _x	3.2 lb/ tons lime produced 672 tons/rolling 12-months	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
600	Lime Kiln	SO ₂	3.295 lb/ tons lime produced 692 tons/rolling 12-months	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
600	Lime Kiln	HCl	0.045lb/ton	40 CFR §60.7081 MACT Avoidance
600	Lime Kiln	Opacity	15%	40 CFR Part 60 Subpart HH §60.342(a)(2)
601	Lime Cooler Area	PM	0.02 gr/acf 0.77 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
602	Lime Kiln Dust Tank	PM	3.59(P) ^{.62} (P<30 TPH) 17.31(P) ^{.16} (P≥30 TPH)	ADEM Admin. Code r. 335-3-4-.04

Emission Point #	Description	Pollutant	Emission limit	Regulation
603	Kiln Discharge Area	PM	0.02 gr/acf 1.54 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
604	Bucket Elevator (Top Area)	PM	0.02 gr/acf 1.37 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
605	Product Screens Area	PM	0.02 gr/acf 1.71 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
606	Silo Penthouse Area	PM	0.02 gr/acf 1.03 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
607	Lime Kiln Run Silo	PM	0.02 gr/acf 1.03 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
608	Rejects Bin	PM	0.02 gr/acf 0.42 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
609	Product Silos	PM	0.02 gr/acf 1.20 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
610	Product Silos Reclaim	PM	0.02 gr/acf 1.20 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
611	Reclaim Elevator Discharge	PM	0.02 gr/acf 0.86 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
612	Reclaim Screen Area	PM	0.02 gr/acf 1.29 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
613	Lime Storage Bin 8	PM	0.02 gr/acf 0.26 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD

Emission Point #	Description	Pollutant	Emission limit	Regulation
615	Storage Bins 9 & 10	PM	3.59(P) ^{.62} (P<30 TPH) 17.31(P) ^{.16} (P≥30 TPH)	SIP
616	Bin 9&10 Truck Feeders	PM	0.02 gr/acf 0.6 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
617	Bin 9 & 10 Rail Feeders	PM	0.02 gr/acf 0.55 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
618	Truck Loading	PM	0.02 gr/acf 1.29 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
619	Rail Loading	PM	0.02gr/acf 1.29 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
620	Lime Fines Storage Tanks	PM	0.02 gr/acf 0.42 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
621	Lime Hydrate System	PM	3.59(P) ^{.62} (P<30 TPH) 17.31(P) ^{.16} (P≥30 TPH)	SIP
622	Lime Hydrator	PM	3.59(P) ^{.62} (P<30 TPH) 17.31(P) ^{.16} (P≥30 TPH)	SIP
623	Ball Mill Cyclone & Air Separator System	PM	0.02 gr/acf 1.37 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
624	Hydrate Load-out Spout	PM	0.02 gr/acf 1.03 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
625	West Bulk Loadout Tank	PM	0.02 gr/acf 0.51 lb/hr	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
Area 600	All sources except the Lime Kiln (EU600)	Opacity	20%	ADEM Admin. Code r. 335-3-4-.01

Provisos for Lime Plant Area 600

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16.03, <i>"Major Source Operating Permits."</i>	ADEM Admin Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of ADEM Administrative Code r. 335-3-4-.04, <i>"Control of Particulate Emissions: Process Industries, General"</i> .	ADEM Admin. Code r. 335-3-4-.04(1) and (2)
3. This source is subject to applicable provisions of ADEM Admin Code r. 335-3-4-.01 (1), <i>"Control of Particulate Emissions – Visible Emissions"</i> .	ADEM Admin. Code r. 335-3-4-.01(1)
4. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, <i>"Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]"</i> .	ADEM Admin. Code r. 335-3-14-.04
5. This source has enforceable limits in place in order to prevent it from being subject to the provisions of 40 CFR 63 Subpart AAAAA, <i>"National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants."</i>	40 CFR §63.7081 (a)
6. The Lime Kiln (600) is subject to the applicable requirements of 40 CFR 60 Subpart HH, <i>"Standard of Performance for Lime Manufacturing Plants."</i>	40 CFR Part 60 Subpart HH § 60.340(a)
7. This source is subject to the applicable requirements of 40 CFR Part 64, <i>"Compliance Assurance Monitoring"</i> . Pre-control potential particulate matter emissions exceed 100 tpy.	40 CFR Part 64
<u>Emission Standards</u>	
1. No source associated with the Lime Plant (Area 600), with the exception of the Lime Kiln, shall exhibit more than one 6-minute average opacity of emissions greater than 20% in any 60-minute period. At no time shall any source associated with the Lime Plant (Area 600) exhibit a 6-minute average opacity of emissions greater than 40%.	ADEM Admin. Code r. 335-3-4-.01
2. Visible emissions (VE) discharged from the Lime Kiln shall not exceed 15%, as determined by a 6-minute average.	40 CFR Part 60 Subpart HH § 60.342(a)(2)
3. The Lime Kiln Dust Tank (602), Storage Bins 9 & 10 (615), the Lime Hydrate System (621), and the Lime Hydrator (622) are subject to no other emissions standards other than those found in the General Provisos (to include Nos. 29 and 31).	ADEM Admin. Code r. 335-3-4-.04

Federally Enforceable Provisos**Regulations**

4. PM from the Lime Kiln (600) must not discharge to the atmosphere particulate matter emission in excess of 0.60 lb/ton of stone feed.
5. PM from the Lime Kiln (600) must not discharge to the atmosphere particulate matter emissions in excess of 0.02 gr/acf, 34.5 lb/hr, and 151 TPY.
6. The sources listed below shall not discharge to the atmosphere particulate matter emissions in excess of 0.02 gr/acf and those values which are listed in the following table:

Emission Point #	Description	Emission Limit (lb/hr)
EU601	Lime Cooler Area	0.77
EU603	Kiln Discharge Area	1.54
EU604	Bucket Elevator (Top Area)	1.37
EU605	Product Screens Area	1.71
EU606	Silo Penthouse Area	1.03
EU607	Lime Kiln Run Silo	1.03
EU608	Rejects Bin	0.42
EU609	Product Silos	1.20
EU610	Product Silos Reclaim	1.20
EU611	Reclaim Elevator Discharge	0.86
EU612	Reclaim Screen Area	1.29
EU613	Lime Storage Bin 8	0.26
EU616	Bin 9 & 10 Truck Feeders	0.6
EU617	Bin 9 & 10 Rail Feeders	0.55
EU618	Truck Loading	1.29
EU619	Rail Loading	1.29
EU620	Lime Fines Storage Tanks	0.42
EU623	Ball Mill Cyclone & Air Separator System	1.37
EU624	Hydrate Loadout Spout	1.03
EU625	West Bulk Loadout tank	0.51

7. Sulfur Dioxide from the Lime Kiln must not discharge to the atmosphere emissions in excess of 3.295 lb/ton of lime produced and 692 tons per rolling 12-month period.
8. The sulfur dioxide removal efficiency, based on the comparison of the sulfur content of the inlet fuel and the sulfur dioxide emission rate, shall be 84% or greater.
9. The sulfur content of the fuel blend delivered to the Lime Kiln burner shall not exceed 3.0%.

40 CFR Part 60
Subpart HH
§ 60.342(a)(1)

ADEM Admin. Code r.
335-3-14-.04

Anti-PSD

ADEM Admin. Code r.
335-3-14-.04

Anti-PSD

ADEM Admin. Code r.
335-3-14-.04

Anti-PSD

ADEM Admin. Code r.
335-3-14-.04

ADEM Admin. Code r.
335-3-14-.04

Federally Enforceable Provisos	Regulations
10. Nitrogen Oxides from the Lime Kiln must not discharge to the atmosphere emissions in excess of 3.20 lb/ton of lime produced and 672 tons per rolling 12-month period.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
11. Carbon Monoxide from the Lime Kiln must not discharge to the atmosphere emissions in excess of 1.65 lb/ton of lime produced and 346 tons per rolling 12-month period.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
12. The production of lime in the Lime Kiln shall not exceed 420,000 tons in any consecutive 12-month period.	ADEM Admin. Code r. 335-3-14-.04 Anti-PSD
13. The Lime Kiln shall not discharge to the atmosphere HCl emissions in excess of 0.045 lb/ton of lime produced (9.5 TPY).	40 CFR §63.7081 (a) MACT Avoidance
14. The Lime Kiln shall not discharge to the atmosphere any single HAP in excess of 9.5 TPY or any combination of total HAPs in excess of 24.5 TPY.	40 CFR §63.7081 (a) MACT Avoidance
<u>Compliance and Performance Test Methods and Procedures</u>	
1. Particulate matter (PM) emissions tests shall be conducted in accordance with Method 5 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
2. Visible emission observations (VEO) shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
3. Emissions of HCl shall be determined by an EPA-approved reference method as stated in 40 CFR 63, Subpart AAAAA.	ADEM Admin. Code r. 335-3-1-.05
4. Sulfur Dioxide emissions test shall be conducted in accordance with Method 6 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
5. The sulfur content of the fuel blend delivered to the kiln burner shall be measured in accordance with ASTM D4239-00.	ADEM Admin. Code r. 335-3-1-.05
6. Nitrogen Oxide emissions test shall be conducted in accordance with Method 7 or 7E of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
7. Carbon Monoxide emissions test shall be conducted in accordance with Method 10 of 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
8. Instantaneous visible emissions observations (VEO) shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
<u>Emission Monitoring</u>	
1. Emission monitoring requirements under 40 CFR 64, “Compliance Assurance Monitoring” can be found in the	40 CFR Part 64

Federally Enforceable Provisos	Regulations
Appendix on Page 39.	
2. The Permittee shall conduct a particulate matter emissions test for the Lime Kiln 1 annually, at intervals not to exceed 12 months.	ADEM Admin. Code r. 335-3-16-.05(c)
3. The Permittee shall calibrate, maintain, and operate a continuous opacity monitoring system (COMS) to measure the opacity from the Lime Kiln's baghouse exhaust. The COMS shall comply with performance specifications as stated in 40 CFR 60, Appendix B.	ADEM Admin. Code r. 335-3-16-.05(c)
4. Should the visible emissions from the Lime Kiln exceed a 6-minute average of 15% opacity, as determined by the COMS, corrective measures shall be taken within 2 hours to reduce the visible emissions to below the 15% opacity standard.	ADEM Admin. Code r. 335-3-16-.05(c)
5. Should the net opacity exceedances (as determined by the COMS) from the Lime Kiln exceed 5% of the total operating time of the Lime Kiln during any calendar quarter, the Department may require additional particulate matter emissions testing to be performed prior to the end of the next calendar quarter.	ADEM Admin. Code r. 335-3-16-.05(c)
6. The SNCR shall be operated according to good engineering practices and shall be operated in a manner so as to control the emissions of NO _x while simultaneously minimizing excess ammonia (NH ₃) emissions.	ADEM Admin. Code r. 335-3-16-.05(c)
7. The permittee shall install, operate, and maintain a system to continuously monitor and record reagent flow to the SNCR system. If the reagent monitoring system indicated that there is not reagent flow to the SNCR and the kiln system is in stable operation and the minimum process gas temperature for reagent injection has been reached, the permittee shall, within two hours, initiate corrective action to return the reagent injection system to service to ensure the SNCR system is operational at least ninety (90) percent of available kiln operating time, not including period of startup, shutdown, or kiln malfunction.	ADEM Admin. Code r. 335-3-16-.05(c)
8. <i>For sources within this system that are controlled by air pollution control equipment:</i> The Permittee shall conduct a visual check of each emission point within the Lime Plant (Area 600), with the exception of the Lime Kiln at least once per week. If visible emissions greater than 15% are noted, a visible emissions observation in accordance with EPA Reference Method 9 shall be conducted within 1 hour of the initial observation of visible emissions. The Method 9 test shall be performed for at least 6 minutes.	ADEM Admin. Code r. 335-3-16-.05(c)
9. <i>For sources within this system that are controlled by air pollution control equipment:</i> If the Method 9 test results in	ADEM Admin. Code r.

Federally Enforceable Provisos	Regulations
<p>greater than 15% opacity, corrective action shall be initiated within 2 hours of the performance of the Method 9 test in order to reduce the emissions. After the corrective action has been completed, the Permittee shall perform another visual check to ensure the visible emissions have been reduced. If any Method 9 test results in greater than 20% opacity (as determined by a 6-minute average), the Department shall be notified within 24 hours (or 1 working day) of the performance of the Method 9 test.</p>	<p>335-3-16-.05(c)</p>
<p>10. <i>For sources within this system that are not controlled by air pollution control equipment:</i> The opacity of emissions from these sources shall be monitored in accordance with the following:</p> <ul style="list-style-type: none"> (a) An instantaneous visible emissions observation shall be conducted at least weekly during daylight hours while the affected source is in operation. (b) If any visible emissions are observed during the instantaneous visible emissions observation, a six (6) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within one (1) hour of the initial observation, unless the source is immediately shut down. (c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours. (d) After corrective action has been completed, a follow-up instantaneous visible emissions observation shall be conducted in order to ensure that no visible emissions are present. 	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>9. A sample of the solid fuel blend delivered to the Lime Kiln burner shall be collected at least once per shift, and a composite of these samples shall be made once every 7 days. An analysis of this 7-day composite's sulfur content shall be made each week.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>10. At least once prior to Permit renewal, the sulfur dioxide removal efficiency, based on the comparison of the sulfur content to the inlet fuel and the sulfur dioxide emission rate, shall be determined for the Lime Kiln.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p>11. Nitrogen Oxides and Carbon Monoxide emissions test shall be conducted at least once prior to Permit renewal. During these emissions tests, the maximum fuel firing rate (3-hour averaging period) and the minimum O₂ level (3-hour averaging period) shall be recorded.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

Federally Enforceable Provisos	Regulations
<p>12. If the fuel firing rate (3-hour averaging period) for the Lime Kiln exceeds 110% of the fuel firing rate (3-hour averaging period) as measured during the most recent CO and NO_x emissions tests which demonstrates compliance with the applicable standards, the fuel feed rate shall be reduced, and the Permittee shall conduct additional CO and NO_x emissions test at the higher fuel firing rate.</p> <p>13. If the O₂ level (3-hour averaging period) for the Lime Kiln is recorded as less than 75% of the lowest level (3-hour averaging period) as measured during the most recent CO and NO_x emissions test which demonstrated compliance with the applicable standards, the Permittee shall investigate the cause and initiate corrective action within 2 hours in order to increase the O₂ level (3-hour averaging period).</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. A written report of the excess opacity emissions, as defined below, will be submitted to the Department for each calendar quarter within the month following the end of the quarter. The reports will include the following information:</p> <ul style="list-style-type: none"> • The magnitude of excess emissions over 15% computed from 6-minute averages (data recorded during period of opacity monitoring system breakdowns, repairs, calibration checks and zero and span adjustments shall not be included in the data averages). • The date and time of commencement and completion of each time period of excess emissions. • The nature and cause of the excess emissions (if known) and the corrective action taken or preventative measures adopted. • The date and time identifying each period during which the opacity monitoring system was inoperative (except for zero and span checks) and the nature of the system repairs or adjustments. • When no excess emissions have occurred and the opacity monitoring system was not inoperative or did not require repairs or adjustments, such information will be stated in the report. <p>2. All the original data charts, performance evaluations, calibration checks, adjustment and maintenance records and other information regarding the opacity monitoring system will be maintained in a permanent form suitable for inspection.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p> <p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

Federally Enforceable Provisos	Regulations
3. The Permittee shall maintain records of the lime production in the Lime Kiln in a form suitable for inspection for a period of at least 5 years. The records should indicate each month's production as well as the total lime production of each consecutive 12-month period.	ADEM Admin. Code r. 335-3-16-.05(c)
4. Records of the weekly fuel sulfur analyses of the fuel blend delivered to the Lime Kiln shall be maintained in a permanent form suitable for inspection.	ADEM Admin. Code r. 335-3-16-.05(c)
5. The Department shall be notified within 24 hours of any composite analysis that results in a fuel sulfur content greater than 3.0%.	ADEM Admin. Code r. 335-3-16-.05(c)
6. Records of all visual checks, corrective actions taken and follow-up visual checks shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.	ADEM Admin. Code r. 335-3-16-.05(c)
7. The Permittee shall record and maintain the maximum fuel firing rate (3-hour averaging period) and the minimum O ₂ level (3-hour averaging period) during all time of Lime Kiln operation.	ADEM Admin. Code r. 335-3-16-.05(c)

Summary Page for Solid Fuel Handling & Storage System

Permitted Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission Limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
FE 081	North Coal Feeder	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
FE 082	South Coal Feeder	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
CR 084	Roll Crusher	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BC 085	Belt Conveyor	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BC 086	Belt Conveyor	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BC 087	Belt Conveyor	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BN 866	Coal Storage Bin	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BN 867	Coal Storage Bin	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
BC 870	Belt Conveyor	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)

RL 871	Coal Mill	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
WF 868	Weigh Feeder	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)
WF 869	Weigh Feeder	PM/Opacity	20%	40 CFR Part 60 Subpart Y § 60.254(a)

Provisos for Solid Fuel Handling & Storage System

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This unit is subject to the provisions of ADEM Admin. Code r. 335-3-16.03, " <i>Major Source Operating Permits</i> ."	ADEM Admin Code r. 335-3-16-.03
2. This source is subject to the applicable requirements of 40 CFR 60 Subpart Y, " <i>Performance Standards for Coal Preparation</i> ."	40 CFR Part 60 Subpart Y § 60.250
<u>Emission Standards</u>	
1. No source associated with the Solid Fuel Handling & Storage System shall discharge to the atmosphere fugitives emissions greater than 20% opacity.	40 CFR Part 60 Subpart Y § 60.254(a)
2. Precautions shall be taken to prevent fugitive dust from emanating transfer points, conveyors, feeders, bins, and any other equipment within the Solid Fuel Handling and Storage System.	ADEM Admin. Code r. 335-3-16-.05(c)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9, as found in Appendix A of 40 CFR 60, shall be used to determine compliance with the opacity standards.	ADEM Admin. Code r. 335-3-1-.05
2. Instantaneous visible emissions observations (VEO) shall be conducted in accordance with Method 22 40 CFR 60, Appendix A.	ADEM Admin. Code r. 335-3-1-.05
<u>Emission Monitoring</u>	
1. The opacity emissions from this source shall be monitored in accordance with the following:	ADEM Admin. Code r. 335-3-16-.05(c)
(a) An instantaneous visible emissions observation shall be conducted at least weekly during daylight hours while the affected source is in operation.	
(b) If any visible emissions are observed during the instantaneous visible emissions observation, a six (6) minute visible emissions observation shall be conducted in accordance with Method 9 of 40 CFR 60, Appendix A, within one (1) hour of the initial observation, unless the source is immediately shut down.	
(c) If any visible emissions are observed during the initial visible emissions observation, corrective action shall be initiated within two (2) hours.	

Federally Enforceable Provisos	Regulations
<p>(d)After corrective action has been completed, a follow-up instantaneous visible emissions observation shall be conducted in order to ensure that no visible emissions are present.</p>	
<p><u>Recordkeeping and Reporting Requirements</u></p>	
<p>1. Record documenting the observation date, observation time, emission point designation, name of observer, expiration date of observer's certification, observed opacity, and any corrective actions taken during each visible emissions observation shall be kept in a permanent form suitable for inspection. These records shall be maintained for a period of at least five (5) years from the date of generation and shall be made available to the permitting authority upon request.</p>	<p>ADEM Admin. Code r. 335-3-16-.05(c)</p>

APPENDIX

COMPLIANCE ASSURANCE MONITORING (CAM)

Compliance Assurance Monitoring Plan for Emission Unit 600 (Lime Kiln)

	Indicator 1
I. Indicator	Opacity (Measured with a Continuous Opacity Monitor)
II. Indicator Range	Opacity should be 15% or less. Inspection of baghouse is prompted if outside this range for more than 5 consecutive 6-minute periods.
III. Performance Criteria	
A. Data Representativeness	The COMS is located at the baghouse outlet. The system has a minimum accuracy of +/- 3% over the range of the monitor.
B. Verification of Operation Status	N/A
C. QA/QC Practices & Criteria	Calibrate and maintain in accordance with manufacturer's specification and 40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specification I requirements.
D. Monitoring Frequency	
Data Collection Procedures	Continuously recorded electronically
Averaging Period	6-minute averages